

ABSTRACT

A driving apparatus that does not include a member between the piezoelectric element and the target object. The
5 driving apparatus comprises a piezoelectric element, which is fixed to a stationary member via the ends, a target object, which is frictionally engaged with the ends of the piezoelectric element, and piezoelectric element driving devices that each apply a voltage to the piezoelectric
10 element such that the speed of extension and the speed of contraction of the portion of the piezoelectric element between the respective are different.